

FIG. 1



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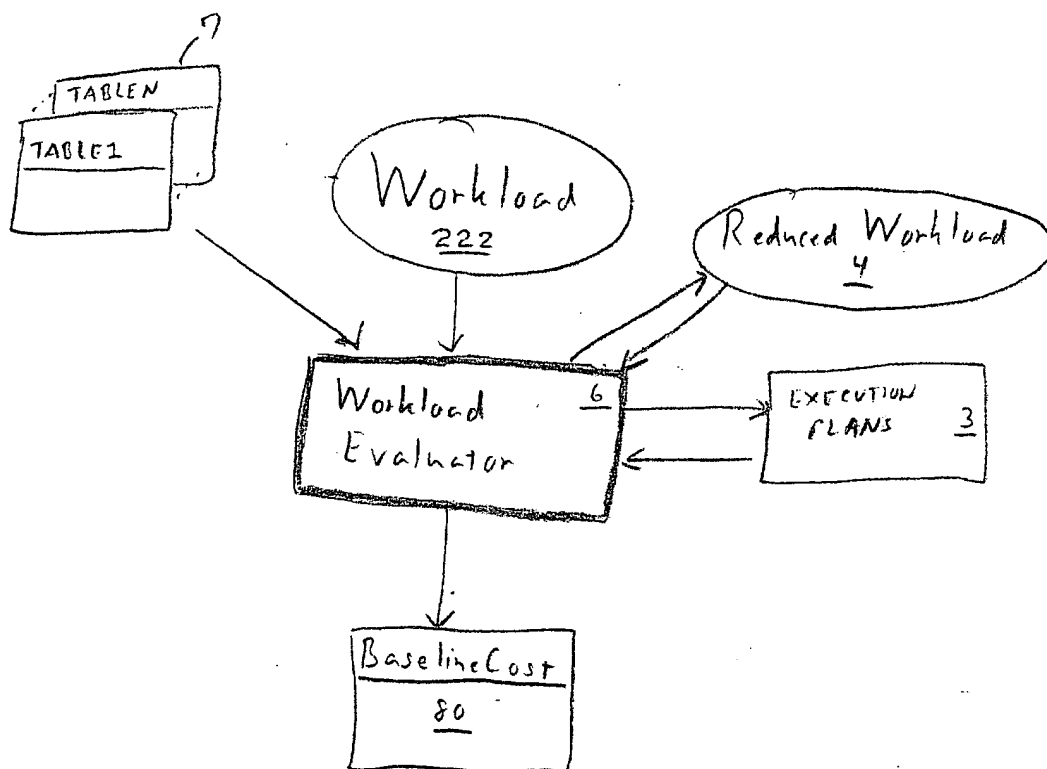


Fig. 3A

SECRET

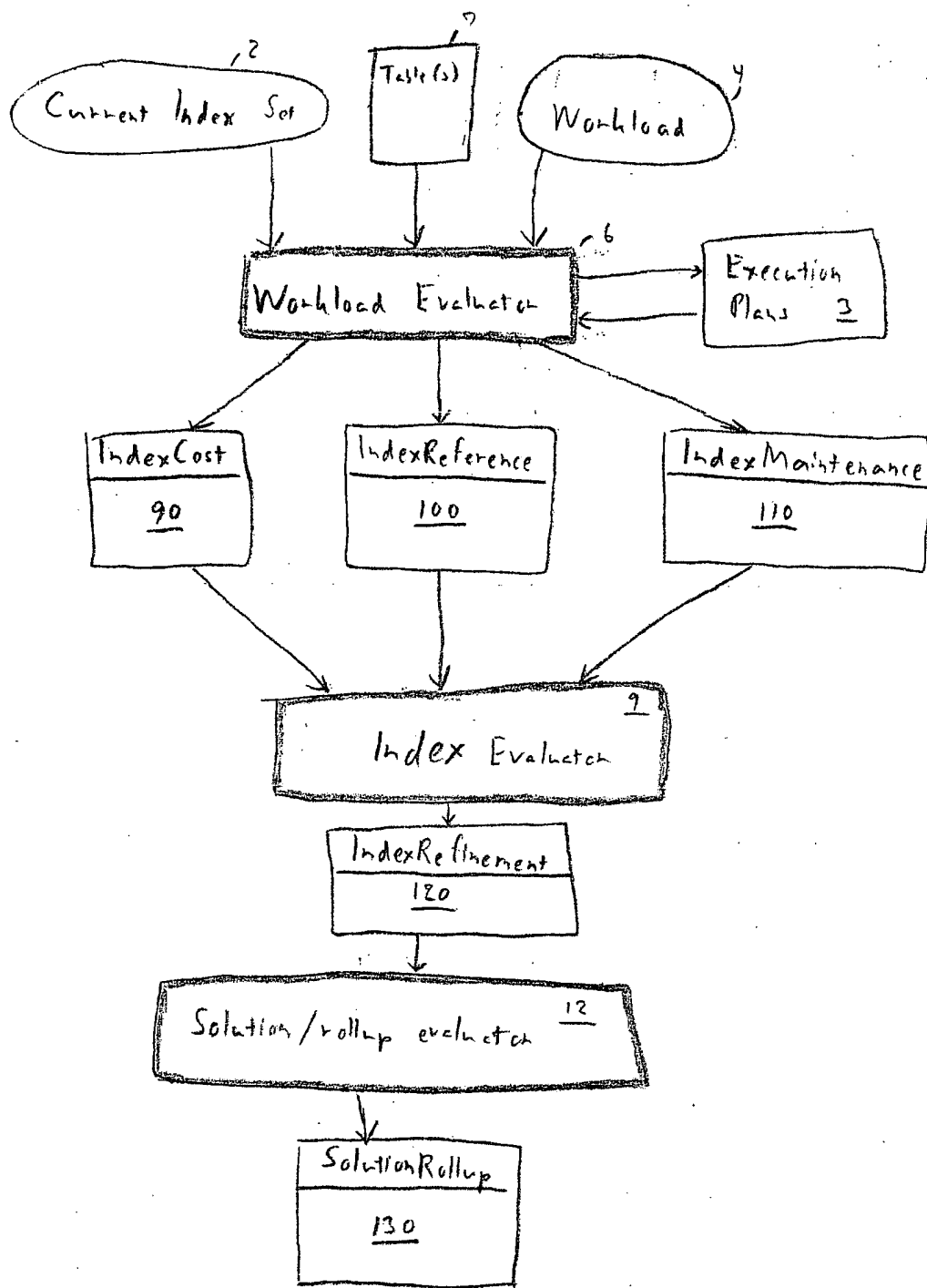


Fig. 3B

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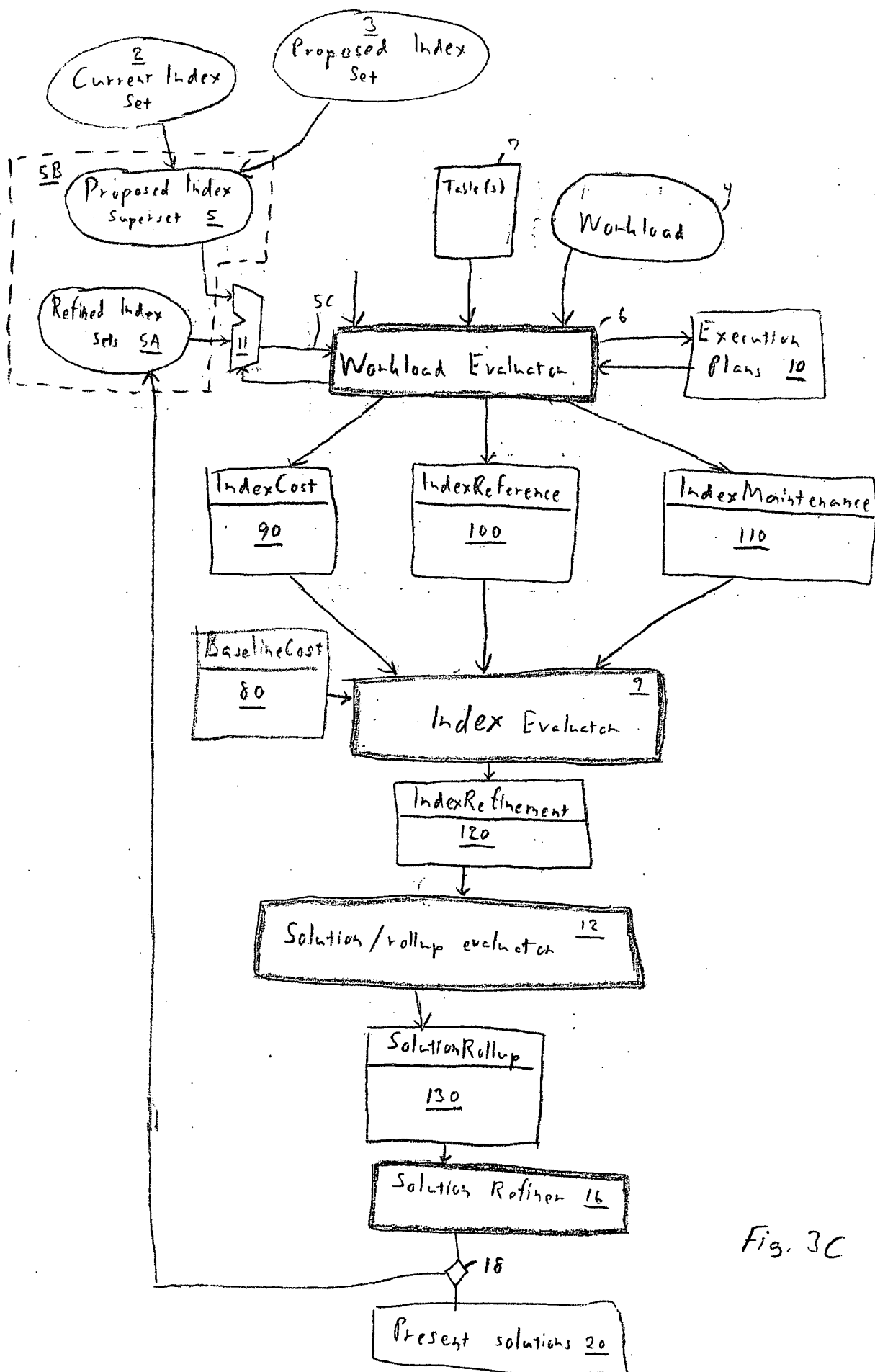


Fig. 3C

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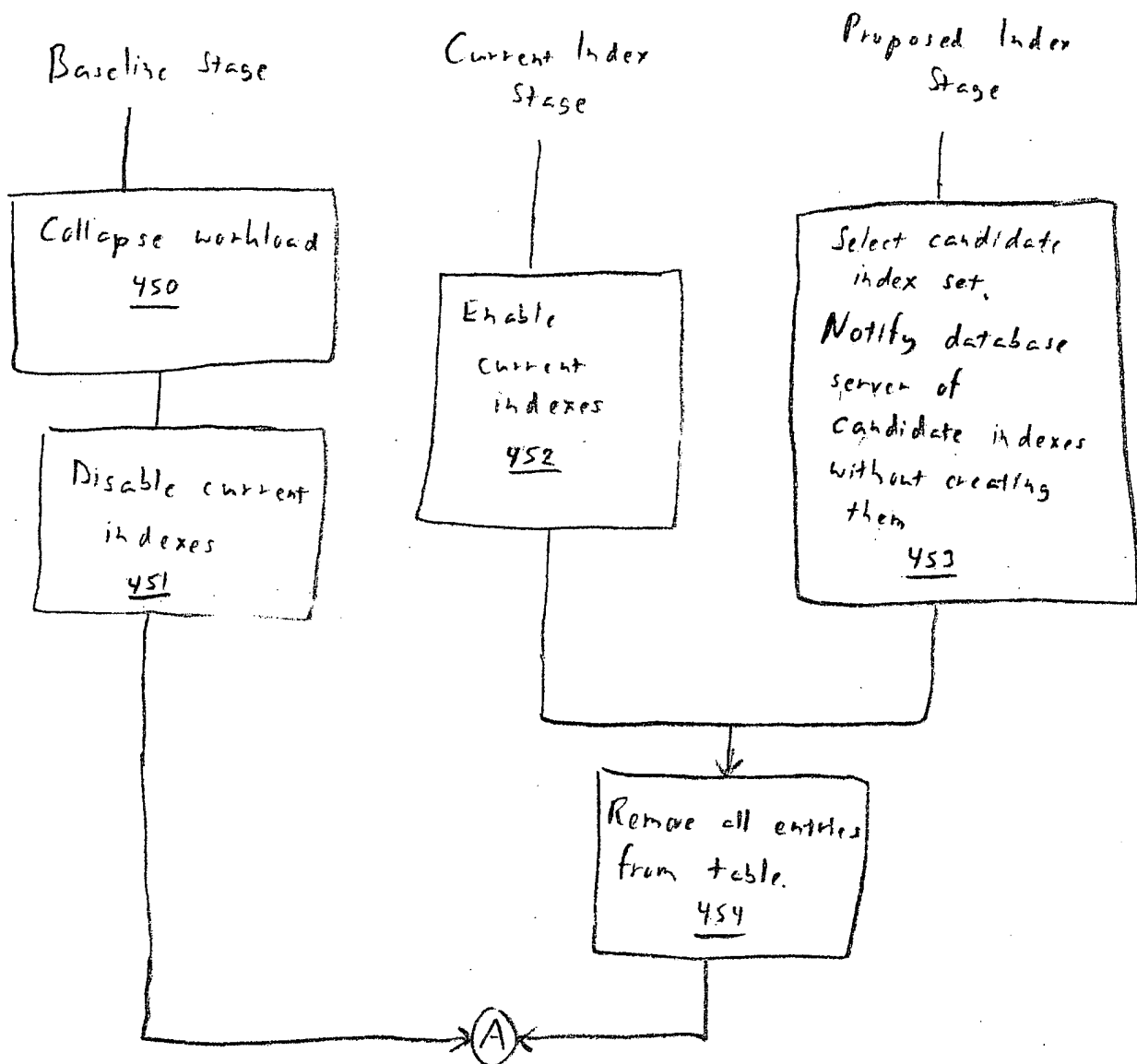


Fig. 4A



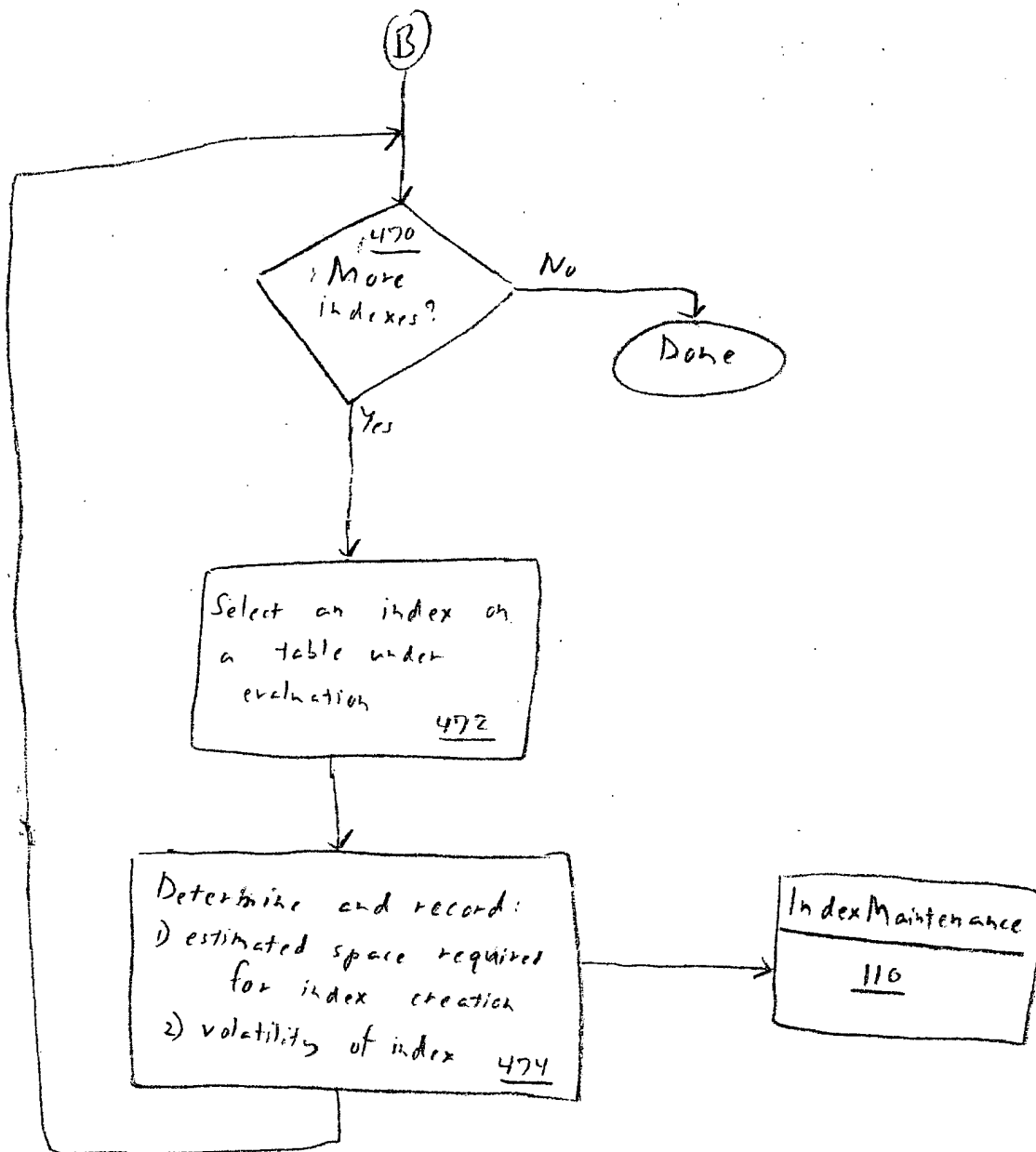
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Fig. 4C



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<u>StmtId</u> 82	<u>Cost</u> 84	<u>Executions</u> 86	<u>Weight</u> 88	<u>UsageCost</u> 89

**Fig. 5**

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<u>StmtId</u> 92	<u>Cost</u> 94	<u>UsageCost</u> 96

**Fig. 6**

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1

<u>StmtId</u> <u>102</u>	<u>IndexName</u> <u>104</u>	<u>IndexRefCount</u> <u>106</u>

**Fig. 7**

**IndexMaintenance Table**

<u>IndexName</u> 112	<u>RequiredSpace</u> 114	<u>Volatility</u> 116

**Fig. 8**

**IndexRefinement Table**

<u>IndexName</u> 122	<u>UsageValue</u> 124

**Fig. 10**

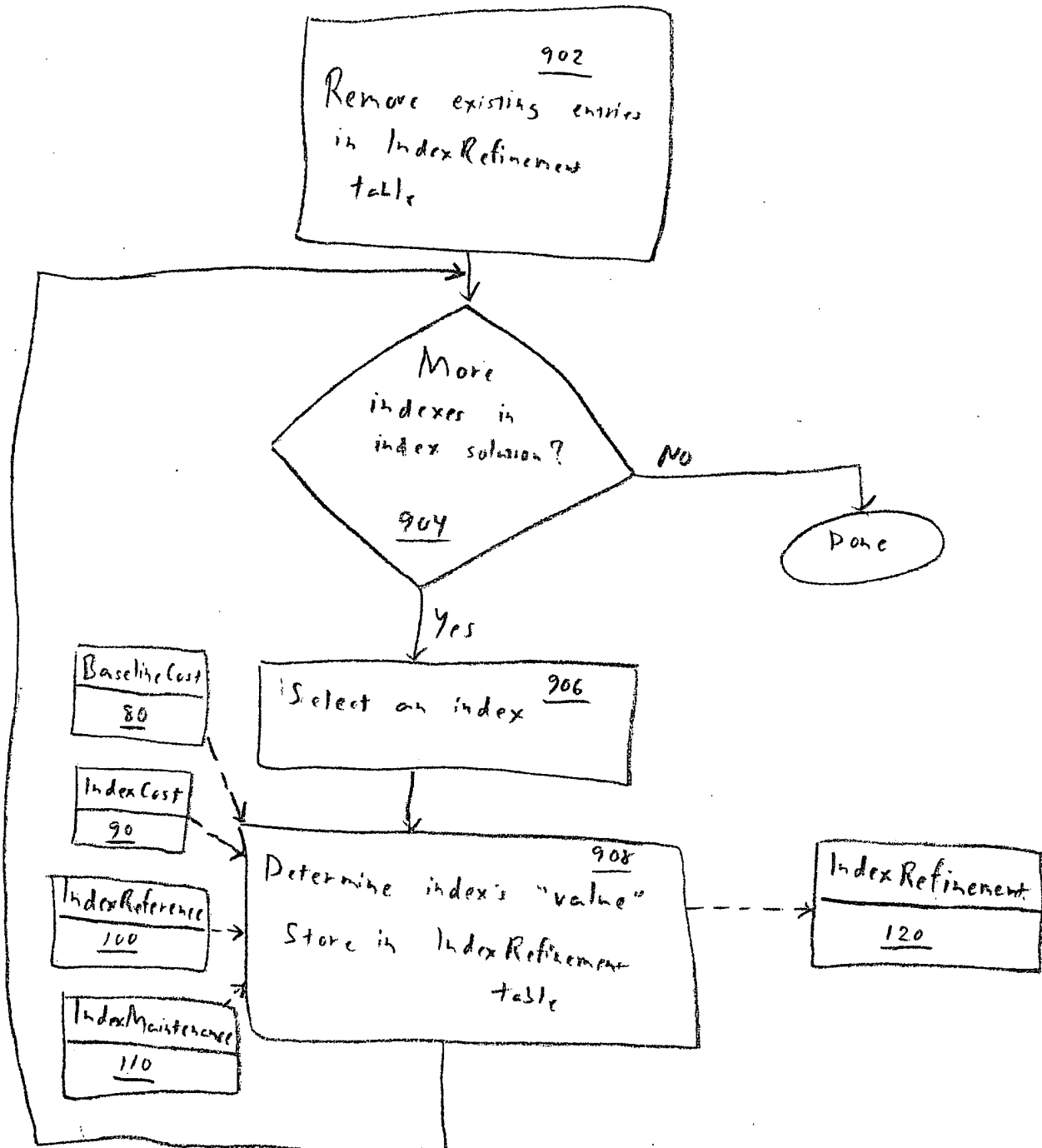


Fig. 9.

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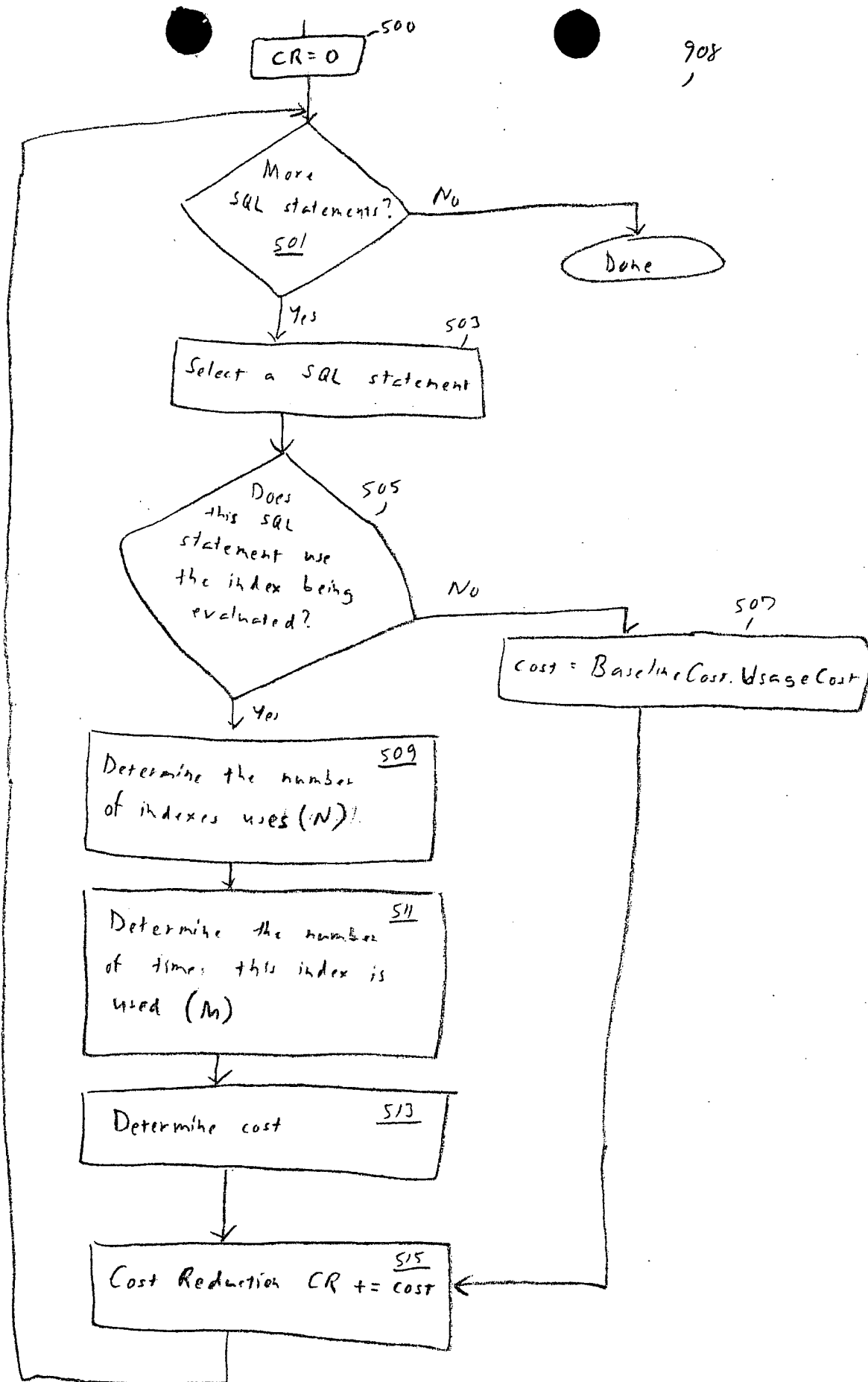


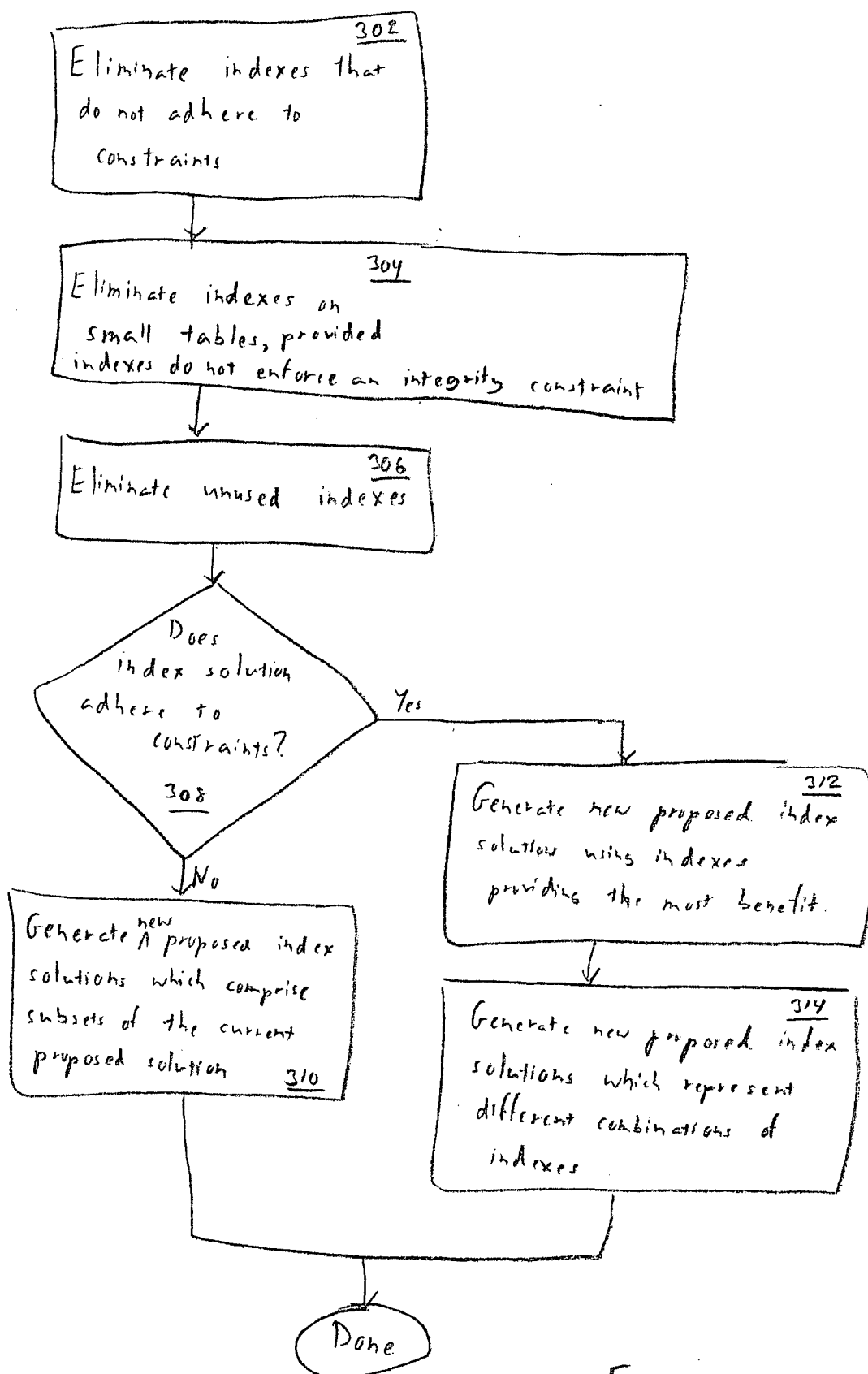
Fig. 11

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SolutionRollupTable				
<u>SolutionId</u> 132	<u>Cost</u> 134	<u>SpaceRequired</u> 136	<u>Volatility</u> 138	<u>Efficiency</u> 139

Fig. 12



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**TABLE1      600**

COL 1	COL 2	COL 3	COL 4	COL 5
<u>601</u>	<u>602</u>	<u>603</u>	<u>604</u>	<u>605</u>

**TABLE2      610**

COL 1	COL 2
<u>611</u>	<u>612</u>

**TABLE3      620**

COL 1	COL 2	COL 3
<u>621</u>	<u>622</u>	<u>623</u>

Diagram showing arrows from boxes labeled **IDX3\_1** 625 and **IDX3\_2** 626 pointing to the first and second columns of Table 3.

**TABLE4      630**

COL 1	COL 2
<u>631</u>	<u>632</u>

**Fig. 14**





661	{	S1 (Cost 260) SELECT STATEMENT TABLE ACCESS (FULL) OF TABLE1
662	{	S2 (Cost 260) SELECT STATEMENT TABLE ACCESS (FULL) OF TABLE1
663	{	S3 (Cost 780) SELECT STATEMENT UNION-ALL TABLE ACCESS (FULL) OF TABLE1 TABLE ACCESS (FULL) OF TABLE1 TABLE ACCESS (FULL) OF TABLE1
664	{	S4 (Cost 260) SELECT STATEMENT FILTER TABLE ACCESS (FULL) OF TABLE1 TABLE ACCESS (FULL) OF TABLE2
665	{	S5 (Cost 260) INSERT STATEMENT INTO TABLE1
666	{	S6 (Cost 101) UPDATE STATEMENT UPDATE OF TABLE2 TABLE ACCESS (FULL) OF TABLE2
667	{	S7 (Cost 147) SELECT STATEMENT TABLE ACCESS (FULL) OF TABLE3
668	{	S8 (Cost 147) UPDATE STATEMENT UPDATE OF TABLE3 TABLE ACCESS (FULL) OF TABLE3

Fig. 16

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**BaselineCost Table** 80

**Fig. 17**

# WORKLOAD EVALUATION 660A

661A	{	S1 (Cost 26) SELECT STATEMENT TABLE ACCESS (FULL) OF TABLE1
662A	{	S2 (Cost 260) SELECT STATEMENT TABLE ACCESS (FULL) OF TABLE1
663A	{	S3 (Cost 780) SELECT STATEMENT UNION-ALL TABLE ACCESS (FULL) OF TABLE1 TABLE ACCESS (FULL) OF TABLE1 TABLE ACCESS (FULL) OF TABLE1
664A	{	S4 (Cost 260) SELECT STATEMENT FILTER TABLE ACCESS (FULL) OF TABLE1 TABLE ACCESS (FULL) OF TABLE2
665A	{	S5 (Cost 260) INSERT STATEMENT INTO TABLE1
666A	{	S6 (Cost 101) UPDATE STATEMENT UPDATE OF TABLE2 TABLE ACCESS (FULL) OF TABLE2
667A	{	S7 (Cost 3) SELECT STATEMENT INDEX (RANGE SCAN) ACCESS (FULL) OF IDX3_2
668A	{	S8 (Cost 3) UPDATE STATEMENT UPDATE OF TABLE3 INDEX (RANGE SCAN) ACCESS (FULL) OF IDX3 2

Fig. 18

IndexCost Table 90

StmtId 92	Cost 94	UsageCost 96
S1	260	13000
S2	260	1300
S3	780	195000
S4	260	13000
S5	260	650
S6	101	1010
S7	3	1500
S8	3	150

Fig. 19

IndexReference Table 100

StmtId 102	IndexName 104	IndexRefCount 106
S7	IDX3_2	1
S8	IDX3_2	1

Fig. 20

IndexMaintenance Table 110

Index Name 112	Required Space 114	Volatility 116
IDX3_1	5760	0
IDX3_2	8320	3.97

Fig. 21

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IndexRefinement Table 120	
IndexName 122	UsageValue 124
IDX3_1	0
IDX3_2	22.03

Fig. 22

SolutionRollup Table 130				
SolutionId 132	Cost 134	RequiredSpace 136	Volatility 138	Efficiency 139
current	225610	14080	3.97	22.03

Fig. 23

# WORKLOAD EVALUATION 660B

661B	{	S1 (Cost 4) SELECT STATEMENT TABLE ACCESS (BY INDEX ROWID) OF TABLE1 INDEX (RANGE SCAN) OF IDX1_1 (NON-UNIQUE)
662B	{	S2 (Cost 3) SELECT STATEMENT INLIST ITERATOR INDEX (RANGE SCAN) OF IDX1_2 (NON-UNIQUE)
663B	{	S3 (Cost 9) SELECT STATEMENT UNION-ALL INDEX (RANGE SCAN) OF IDX1_2 (NON-UNIQUE) INDEX (RANGE SCAN) OF IDX1_2 (NON-UNIQUE) INDEX (RANGE SCAN) OF IDX1_2 (NON-UNIQUE)
664B	{	S4 (Cost 3) SELECT STATEMENT INDEX (RANGE SCAN) OF IDX1_2 (NON-UNIQUE) TABLE ACCESS (BY INDEX ROWID) OF TABLE2 INDEX (RANGE SCAN) OF IDX2_1 (NON-UNIQUE)
665B	{	S5 (Cost 260) INSERT STATEMENT INTO TABLE1
666B	{	S6 (Cost 3) UPDATE STATEMENT UPDATE OF TABLE2 INDEX (RANGE SCAN) OF IDX2_1 (NON-UNIQUE)
667B	{	S7 (Cost 3) SELECT STATEMENT INDEX (RANGE SCAN) ACCESS (FULL) OF IDX3_2
668B	{	S8 (Cost 3) UPDATE STATEMENT UPDATE OF TABLE3 INDEX (RANGE SCAN) ACCESS (FULL) OF IDX3_2

Fig. 24

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